

REMARKS

This application has been carefully reviewed in light of the Office Action dated January 23, 2007. Claims 1, 3 to 20, and 22 to 38 remain in the application. Claims 1, 4, 20, 23, and 38 have been amended. Claims 2 and 21 have been canceled without prejudice or disclaimer of subject matter. Claims 1 and 20 are the independent claims herein. Reconsideration and further examination are respectfully requested.

Claim 35 was rejected under 35 U.S.C. § 101 because it claims non-statutory subject matter, namely a computer program. Applicant notes that Claim 38, not Claim 35, is directed to a computer program and has amended Claim 38. Accordingly, Applicant submits that amended Claim 38 is directed to statutory subject matter and requests reconsideration and withdrawal of this rejection.

Claims 1, 3, 10, 11, 15, 20, 22, 25, 26, 30, 35, 36 and 38 were rejected under 35 U.S.C. § 102(b) over “HTTP Streaming of JPEG2000 Images” (Deshpande), Claims 2, 14, 21 and 29 were rejected under 35 U.S.C. § 103(a) over Deshpande in view of “The JPIK Protocol” (Taubman), Claims 12, 13, 16, 19, 27, 28, 31 and 34 were rejected under § 103(a) over Deshpande in view of U.S. Publication No. 2003/0018818 (Boliek), Claims 17, 18, 32 and 33 were rejected under § 103(a) over Deshpande in view of Boliek and further in view of “JPEG 2000 Image Coding System - Part 9: Interactivity tools, APIs and protocols” (Prandolini), and Claim 37 was rejected under § 103(a) over Deshpande. Reconsideration and withdrawal of this rejection are respectfully requested.

The present invention concerns selecting data of a compressed digital signal comprising a plurality of levels of spatial granularity of data in a communication network. The data is transmitted from a first communication apparatus to a second communication

apparatus, that data being sufficient to reconstitute a spatial part of the signal (i.e., region of interest) which is specified at the second apparatus. A at least one level of spatial granularity is determined, and data for each determined level of granularity is selected. The determination of the level of spacial granularity depends on a set of data necessary to satisfy a request and not yet received by the second communication apparatus, the minimum quantity of data to be received by the second communication apparatus to reconstitute the region of interest, and the total quantity of data present in the signal.

Turning to specific claim language, amended independent Claim 1 is directed to a method of selecting data of a compressed digital signal comprising a plurality of levels of spatial granularity of data, in a communication network comprising at least two communication apparatuses connected together by the network, the digital signal being available at least at one, so-called first, of the communication apparatuses, the data being adapted to be transmitted from the first apparatus to the other, so-called second, communication apparatus, and that data being sufficient to reconstitute a spatial part of the signal termed region of interest which is specified at the second apparatus. The method includes determining a set of data necessary to satisfy a request and not yet received by the second communication apparatus, taking into account the data received previously by that apparatus; determining at least one level of spatial granularity of data as a function of the region of interest and of the structure and organization of the data in the signal; and selecting data for each determined level of granularity as a function of the region of interest and of the structure and organization of the data in the signal. Determining at least one level of spatial granularity depends on the determined set of data, the minimum quantity of

data to be received by the second apparatus to reconstitute the region of interest, and the total quantity of data present in the signal.

The applied art, alone or in any permissible combination, is not seen to disclose or to suggest the features of Claim 1, and in particular, is not seen to disclose or to suggest at least the feature of determining a level of spacial granularity based on a set of data necessary to satisfy a request and not yet received by a communication apparatus, the minimum quantity of data to be received by the communication apparatus to reconstitute a region of interest, and the total quantity of data present in a signal.

Deshpande discloses streaming of JPEG2000 images using HTTP. A codestream is organized such that any independent part of the codestream can be accessed and decoded by itself. An index file is used to determine which portions of the codestream are necessary to reconstruct a region of interest. However, Deshpande is silent on determining the level of spacial granularity based on a set of data necessary to satisfy a request and not yet received by a communication apparatus, the minimum quantity of data to be received by the communication apparatus to reconstitute a region of interest, and the total quantity of data present in a signal.

Taubman discloses the JPIK protocol which uses JPEG2000. While Taubman discloses a client caching data which is transferred by a server so that this data need not be transferred over again, Taubman is silent on determining the level of spacial granularity based on a set of data necessary to satisfy a request and not yet received by a communication apparatus, the minimum quantity of data to be received by the communication apparatus to reconstitute a region of interest, and the total quantity of data present in a signal.

In view of the foregoing deficiencies of the applied art, Applicant submits that amended independent Claim 1 is now in condition for allowance and respectfully requests same.

Claim 20 is directed to a device substantially in accordance with the method of Claim 1. Accordingly, Applicant submits that Claim 20 is also now in condition for allowance and respectfully requests same.

The other pending claims in this application are each dependent from the independent claims discussed above and are therefore believed allowable for the same reasons. Because each dependent claim is also deemed to define an additional aspect of the invention, however, the individual consideration of each on its own merits is respectfully requested.

In view of the foregoing amendments and remarks, the entire application is believed to be in condition for allowance, and such action is respectfully requested at the Examiner's earliest convenience.

Applicants' undersigned attorney may be reached in our Costa Mesa,
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our below-listed address.

Respectfully submitted,

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